





Patent Department 2292 Faraday Avenue Carlsbad, CA 92008 Facsimile Information

Sender's Name: Pamela D. Grooms

Isis Ref. No.: ISIS-2960 Date January 7, 2004 Serial Number: 09/067,638 Filing Date: April 28, 1998

Art Unit: 1631

Please deliver the following information to:

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- 1. Transmittal
- 2. Revocation of Power of Attorney with New Power of Attorney
- 3. Statement Under 37 CFR 3.73(b)
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This Fax is from

Name: Pamela Grooms

Fax # (760) 603-3820 Telephone # (760) 603-2415

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PAGE 1/19 * RCVD AT 1/7/2004 7:57:54 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/1 * DNIS:8729306 * CSID:760 603 3820 * DURATION (mm-ss):04-18-

		U.S. Pater	and Trademark Office	varU.S. Di	PTO/\$B/21 (08-03) h 08/30/2003, OMB 0651-0031 EPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995,	no persons	s are required to respond to a collection Application Number	09/067,638	S IL GISGIA	AS A VENU COMO COMO HOME
TRANSMITTAL FORM		Filling Date	April 28, 1998		
		First Named Inventor	Lex M. Cowsett		
(to be used for all correspondence after initial)	· ·		1631		
(10 DB 0550 /01 dli donosponadiot o militario militario		Examiner Name	Ardin H. Marschel		
Total Number of Pages in This Submission	18	Attomey Docket Number	ISIS-2960		
	ENC	LOSURES (Check all that	apply)		
Fee Transmittal Form Fee Attached Amendment/Reply After Final Affldavits/declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addr Terminal Disclaimer Request for Refund CD, Number of CD(s)	ess O	Technolo peal Con Appeals ppeal Con ppeal Noti oprietary atus Lette ther Encle	osure(s) (please ow):
O COMP	SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT				
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Firm Herb Boswell or Individual name	2//				
Signature Signature	/				<u>, </u>
Date					
CERTIFICATE OF TRANSMISSION/MAILING					
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I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandrie, VA 22313-1450 on the date shown below.					
Typed or printed name Pamela Grooms	1				
Signature Pamel	all	wom		Date	1/7/2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiatily is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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2003

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REVOCATION OF POWER OF ATTORNEY WITH **NEW POWER OF ATTORNEY** CHANGE OF CORRESPONDENCE ADDRESS

09/067,638 Filing Date April 28, 1998 First Named Inventor Lex M. Cowsert Art Unit 1631 Examiner Name Ardin H. Marschel Attorney Docket Number 1515-2960

Ι

I hereby revoke all previo	us powers of attorney given in the above-identified application.
A Power of Attorney	s submitted herewith.
OR ✓ I hereby appoint the	practitioners associated with the Customer Number: 35807
Please change the co	rrespondence address for the above-identified application to:
The address ass Customer Numb	
OR	
Firm or Individual Name	
Address	
Address	
City	State Zip
Country	·
Telephone	Fax
I am the: Applicant/Inventor.	
Assignee of record Statement under 37	of the entire interest. See 37 CFR 3.71. CFR 3.73(b) is enclosed. (Form PTO/SB/96)
	SIGNATURE of Applicant or Assignee of Record
Name B, Lynne Parshall	
Signature	
Date 1-5-	Telephone 760 603-2460
	or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one
	s are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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Executive vice President &CFD

Ι

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it displays a valid OMB control number. STATEMENT UNDER 37 CFR 3.73(b) Filed/Issue Date: Application No./Patent No.: 01/064, Entitled: Identification of Genefic Targets for Modulation by Oligonucleotides and generation Digonucleotides for Gene Modulation 5 Pharmaceuticals, Inc. (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) (Name of Assignee) states that it is: 1. X the assignee of the entire right, title, and interest; or an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is in the patent application/patent identified above by virtue of either: A. MAn assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 010072, Frame 0639, or for which a copy thereof is attached. OR B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: To: - From: -The document was recorded in the United States Patent and Trademark Office at _, or for which a copy thereof is attached. ____, Frame Reel 2. From: The document was recorded in the United States Patent and Trademark Office at _, or for which a copy thereof is attached. ____, Frame Reel To: 3. From: The document was recorded in the United States Patent and Trademark Office at _, or for which a copy thereof is attached. ___, Frame _ [] Additional documents in the chain of title are listed on a supplemental sheet. [] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. -5-D4 Typed or of inted name Signature Telephone number

This collection of information is required by 37 CFR 3.73(b). The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the simple of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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SEPTEMBER 07, 1999

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WOODCOCK WASHBURN KURTZ MACKIEWICZ &
NORRIS, LLP, PAUL K. LEGAARD
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1650 MARKET STREET PHILADELPHIA, PENNSYLVANIA 19103-7301

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office
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RECORDATION DATE: 07/06/1999

REEL/FRAME: 010072/0689 NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

COWSERT, LEX M.

DOC DATE: 05/26/1999

ASSIGNOR:

BAKER, BRENDA F.

DOC DATE: 05/20/1999

ASSIGNOR:

MCNEIL, JOHN

DOC DATE: 06/02/1999

ASSIGNOR:

FREIER, SUSAN M.

DOC DATE: 06/09/1999

ASSIGNOR:

SASMOR, HENRI M.

DOC DATE: 06/11/1999

ASSIGNOR:

BROOKS, DOUGLAS G.

DOC DATE: 06/03/1999

ASSIGNOR:

OHASHI, CARA

DOC DATE: 05/05/1999

010072/0689 PAGE 2

ASSIGNOR:

WYATT, JACQUELINE R.

DOC DATE: 05/24/1999

Ι

ASSIGNOR:

BORCHERS, ALEXANDER H.

DOC DATE: 05/20/1999

ASSIGNOR:

VICKERS, TIMOTHY A.

DOC DATE: 05/27/1999

ASSIGNEE:

ISIS PHARMACEUTICALS, INC.

2292 FARADAY AVENUE

CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 09067638

PATENT NUMBER:

FILING DATE: 04/28/1998

ISSUE DATE:

MAURICE CARTER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

To The Honorable Commissioner of Pate

FORM PTO-1595 1-31-92

thereof.

PATENTS 07-09-1999

101087006

Ø1007 U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

e attached original documents or copy

Name of conveying party(ies):

Lex M. Cowsert; Brenda F. Baker; John McNeil; Susan M. Freier, Henri M. Sasmor, Douglas G. Brooks; Cara Ohashi; Jacqueline R. Wyatt; Alexander H. Borchers; and Timothy A. Vickers

Additional name(s) of conveying party(ies) attached? () YES (X) NO

- 3. Nature of Conveyance:
 - (X) Assignment

() Merger

- () Security Agreement
- () Change of Name

() Other:

Execution Date(s): May 26, 1999; May 20, 1999; June 2, 1999; June 9, 1999; June 11, 1999; June 3, 1999; May 5, 1999; May 24, 1999; May 20, 1999; and May 27, 1999

2. Name and address of recompatitions

Name: ISIS Pharmaceuticals,

Street Address: 2292 Faraday Avenue JUL

City: Carlsbad

State California ZIP 92008

Additional name(s) & address attached? ()YES (X)NO

- 4. Application number(s) or patent number(s): 09/067,638 If this document is being filed together with a new application, the execution date of the application is:
 - A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? () YES (X) NO

5. Name and address of party to whom correspondence concerning documents should be mailed:

Name: Paul K. Legaard

Internal Address: WOODCOCK WASHBURN KURTZ

MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor

Philadelphia, Pennsylvania 19103-7301

Street Address: WOODCOCK WASHBURN KURTZ

MACKIEWICZ & NORRIS LLP One Liberty Place - 46th Floor

1650 Market Street

Philadelphia, Pennsylvania 19103-7301

- Total number of applications and patents involved: One
- 7. Total fee (37 CFR 3.41):.....\$40.00 (X) Enclosed
 - () Authorized to be charged to Deposit Account Number 23-3050
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Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Paul K. Legaard 38,534

Name of Person Signing/Reg. No.

Signature

June 29, 1999

Date

Total number of pages including cover sheet, attachments, and document: 14

Mail documents to be recorded with required cover sheet information to:

00000155 09067638 708/1999 HTHAI1

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Commissioner of Patents and Trademarks

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FC:581

Apr-27-99 09:27

From-WOODCOCK WASHRURN 33

T-081 P.03/18 F-867

DOCKET NO.: 1SIS-2960

PATENT

ASSIGNMENT

WHEREAS, We, Lex M. Cowsert, of Carlsbad, California: Brenda F. Baker of Carlsbad, California; John McNeil of La Jolla, California; Susan M. Freier of San Diego, California; Henri M. Sasmor of Encinitas, California; Douglas G. Brooks of Marcos, California; Cara Ohashi of San Francisco, California; Jacqueline R. Wyatt of Encinitas, California; Alexander H. Borchers of Encinitas, California and Timothy A. Vickers of Oceanside, California, have invented a certain invention entitled IDENTIFICATION OF GENETIC TARGETS FOR MODULATION BY OLIGONUCLEOTIDES AND GENERATION OF OLIGONUCLEOTIDES FOR GENE MODULATION, for which we have made application for Letters Patent of the United States, said application having been filed April 18, 1998 and assigned Application No. 09/067,638; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign

ASSIGNMENT - PAGE 1 OF 12

Apr-27-99 08:27

T-081

P.04/18

DOCKET NO.: ISIS-2960

From-WOODCOCK WASHBURN 33

PATENT

to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

ASSIGNMENT - PAGE 2 OF 12

P.05/18 F-967

T-081

Apr-27-99, 09:28 From-WOODCOCK WASUBURN 33

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have h	
Dated: <u>5/26</u> 1999	Lex M. Quese

State of California) ss.
County of San Diego)

Signature of Notary

LANE B.D. SCHWARIZ
Commission # 1196197
Notary Public - Colifornia
Son Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

Apr-27-99 09:28

Dated:

From-WOODCOCK WASHBURN 33

T-081 P.06/18

DOCKET NO.: 19	SIS-2960
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PATENT

IN WITNESS WHEREOF, WE	have hereunto set our names and seats.
May 20 1999	have hereumo ser our hands and sears.
, ,	(Brenda F. Baker)

State of California)	
)	S
County of San Diego)	

, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Brenda F. Baker) personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that be the executed the same in the dier authorized capacity, and that by higher signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

Signature of Notary

LANE B.D. SCHWARTZ Commission # 1196197 Notary Public - California Son Diego County My Comm. Explies Sep 13, 2002 WITNESS my hand and official scal.

ASSIGNMENT - PAGE 4 OF 12

County of San Diego

Ι

T-081

P-07/18 F-867

From-WOODCOCK WASHBURN 33 Apr-27-99 .09:28

LANE B.D. SCHWARTZ

San Diego County My Comm. Expires Sep 13, 2002

PATENT DOCKET NO.: ISIS-2960 IN WITNESS WHEREOF, we have hereunts set our hands and seals. State of California SS.

, 1999, before me, the undersigned, a day of On this Notary Public for the state, personally appeared (John McNeil) personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

> WITNESS my hand and official seal. Commission # 1196197 Notary Public - California

> > Signature of Notary

Apr-27-99 09:28

From-WOODCOCK WASHBURN 93

T-081 P.08/18 F-867

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated:

. 1999

(Susan M. Freier)

State of California

ss.

County of San Diego

WITNESS my hand and official seal.

LANE 8.D. SCHWARTZ
Commission # 1196197
Natary Public - California
San Diego County
My Comm. Boltes Sep 13, 2002

ASSIGNMENT - PAGE 6 OF 12

T-081 P.09/18

Apr-27-99 Q9:29 From-WOODCOCK WASHBURN 33

DOCKET NO.: ISIS-2960

PATENT

IN WITNES	s whereof,	we have hereunto set our hands and seals.
Dated: 6-11-99	, 1999	(Henri M. Sasmor)
State of California)) ss.	
County of San Diego	j	
to me on the basis of a	atisfactory evid adged to me that ure on the Assig	eared (Henri M. Sasmor) personally known to me/prevent lence to be the person who subscribed the foregoing the she executed the same in his/her authorized capacity gnment the person, or the entity on behalf of which the

LANE B.D. SCHWARIZ
Commission # 1196197
Notary Public - California
Son Diego County
My Comm. Bopies Sep 13, 2002

WITNESS my hand and official scal.

ASSIGNMENT - PAGE 7 OF 12

Apr-27-89 09:29

From-WOODCOCK WASHBURN 33

T-081 P.10/18 F-867

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 6/3/99	, 1999	Doughe Shoot
• •		(Douglas G. Brooks)
State of California)) ss.	
County of San Diego) 33.	

Signature of Notary

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diega County
My Comm. Bapires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 8 OF 12

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: May 5	, 1999	Cara Ol	a Ohooh' jashi)
State of California))		
County of San Diego)		
On this 5	day of	ហាគ។	, 1999, before me, the undersigned, a
Notary Public for the state, p	ersonally appe	ared (Cara	Ohashi) personally known to me/proved to
me on the basis of satisfactor	y evidence to	be the perso	n who subscribed the foregoing Assignment
			e in his/her authorized capacity, and that by

WITNESS my hand and official seal.

JOHN F. HELFRICH
COMM. #1134646
NOTARY PUBLIC - CALIFORNIA
SAN MATEO COUNTY
My Commission Expires April 18, 2001

executed the Assignment.

Signature of Notary

his/her signature on the Assignment the person, or the entity on behalf of which the person acted,

ASSIGNMENT - PAGE 9 OF 12

P. 12/18

From-WOODCOCK WASHBURN 33

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 5/24/19	1999	(Jacqueline R. Wyatt)	
State of California)) ss.		
County of San Diego)		

___, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Jacqueline R. Wyatt) personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he she executed the same in his her authorized capacity, and that by histher signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

Signáture of Notary

LANE B.D. SCHWARTZ Commission # 1196197 Notary Public - California San Diego County Ay Comm., Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 10 OF 12

DOCKET NO.: ISIS-2960

County of San Diego

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: \(\frac{\frac{1}{20\left(29)}}{\text{(Alexander H. Borchers)}}\)

State of California)

State of California)

ature of Notary

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
Son Diego County
My Comm. Beptres Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 11 OF 12

Apr-27-99. 09:30

From-WOODCOCK WASHBURN 33

T-081 P-14/18 F-867

DOCKET NO.: ISIS-2960

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: <u>5/27/99</u> 1999

(Timothy A. Vickers)

State of California

S5.

County of San Diego

On this _______ day of ________, 1999, before me, the undersigned, a Notary Public for the state, personally appeared (Timothy A. Vickers) personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he she executed the same in his her authorized capacity, and that by his her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary